

Team Number: B____ Team Name: _____

Student Names: _____

Construction/Competition Parameters (Up to 2 Airplanes)

	Aircraft 1		Aircraft 2	
3.a. Kits, if used, do not contain any pre-glued joints or pre-covered surfaces.	Y	N	Y	N
3.b. Boron filaments are not used in the construction of the airplane.	Y	N	Y	N
3.c. Total airplane mass throughout flight (excluding rubber motor) ≥ 7.0 g.	Y	N	Y	N
3.d. The airplane is a monoplane (one wing) with horizontally projected wingspan ≤ 40.0 cm, wing chord ≤ 10.0 cm, horizontally projected stabilizer span ≤ 20.0 cm, and chord of the stabilizer ≤ 7.0 cm.	Y	N	Y	N
3.e. The propeller is a single two-bladed, propeller with diameter ≤ 14.0 cm. Variable-pitch propellers that include mechanisms to actively change the blade diameter or angle are not used.	Y	N	Y	N
3.f. The airplane is powered by a rubber motor ≤ 1.50 g (including attachments).	Y	N	Y	N
3.h. The airplane is labeled so that the event supervisor can easily identify to which team it belongs.	Y	N	Y	N
3.i. Students are able to answer questions regarding the design, construction, and operation of the device.	Y	N	Y	N
4.b. Participants do not received outside assistance, materials, or communication after entering the cordoned off competition area.	Y	N	Y	N
4.m. Competitors do not steer the airplane during flight.	Y	N	Y	N

PLANE FREE OF ALL CONSTRUCTION AND COMPETITION VIOLATIONS ABOVE?

5.c. Airplane has the surface of the wing between at least 2 ribs of the leading and trailing edges or at least one of the wing tip fences completely marked with black marker or black tissue.	<u>1. Y</u>	<u>N</u>	<u>3. Y</u>	<u>N</u>
	<u>2. Y</u>	<u>N</u>	<u>4. Y</u>	<u>N</u>

Others

5.b. Duration of time between the motors being re-issued to the team and the launch of their first airplane flight (trim or official). (Circle one)	5. <u>0 – 3 min.</u> <u>3 – 6 min.</u> <u>6 – 10 min.</u> <u>no flight</u>
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5.d-e. Is flight log complete, incomplete or not present? (Circle one) <i>Complete means including 6 or more parameters (including motor size before windup, number of turns on the motor or torque at launch, and flight time) for 10 or more test flights prior to the competition.</i> <i>10% time deduction for incomplete flight logs, 30% time deduction for missing flight logs</i>	6. Complete Incomplete None
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General Rule: Disqualified (notify the team and their coach as soon as possible)	<u>7. Y</u>	<u>N</u>
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TEAMS MAY USE THE SAME AIRPLANE FOR BOTH FLIGHTS

1st Flight Time 4.k. To the timing device's precision

8. ____ min ____ sec 9. ____ min ____ sec 10. ____ min ____ sec

2nd Flight Time 4.k. To the timing device's precision

11. ____ min ____ sec 12. ____ min ____ sec 13. ____ min ____ sec